Fig 1A

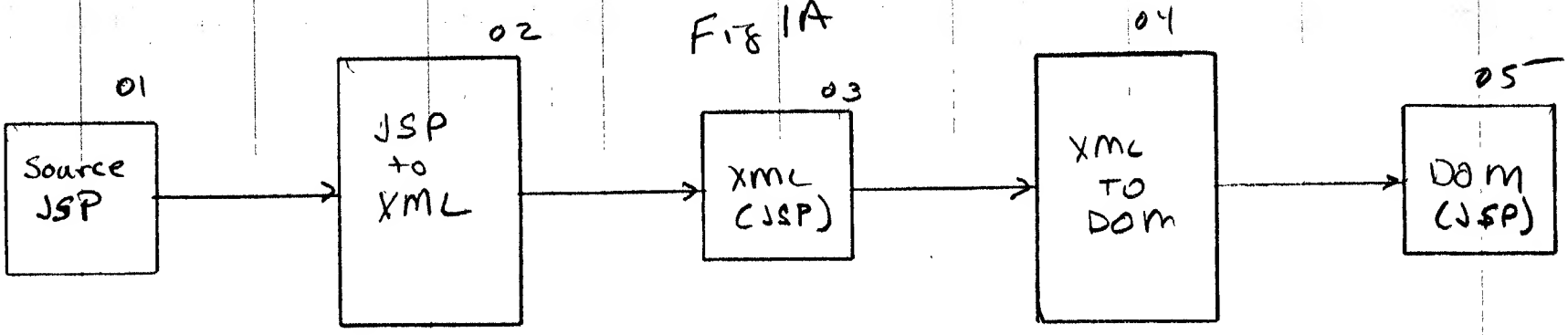
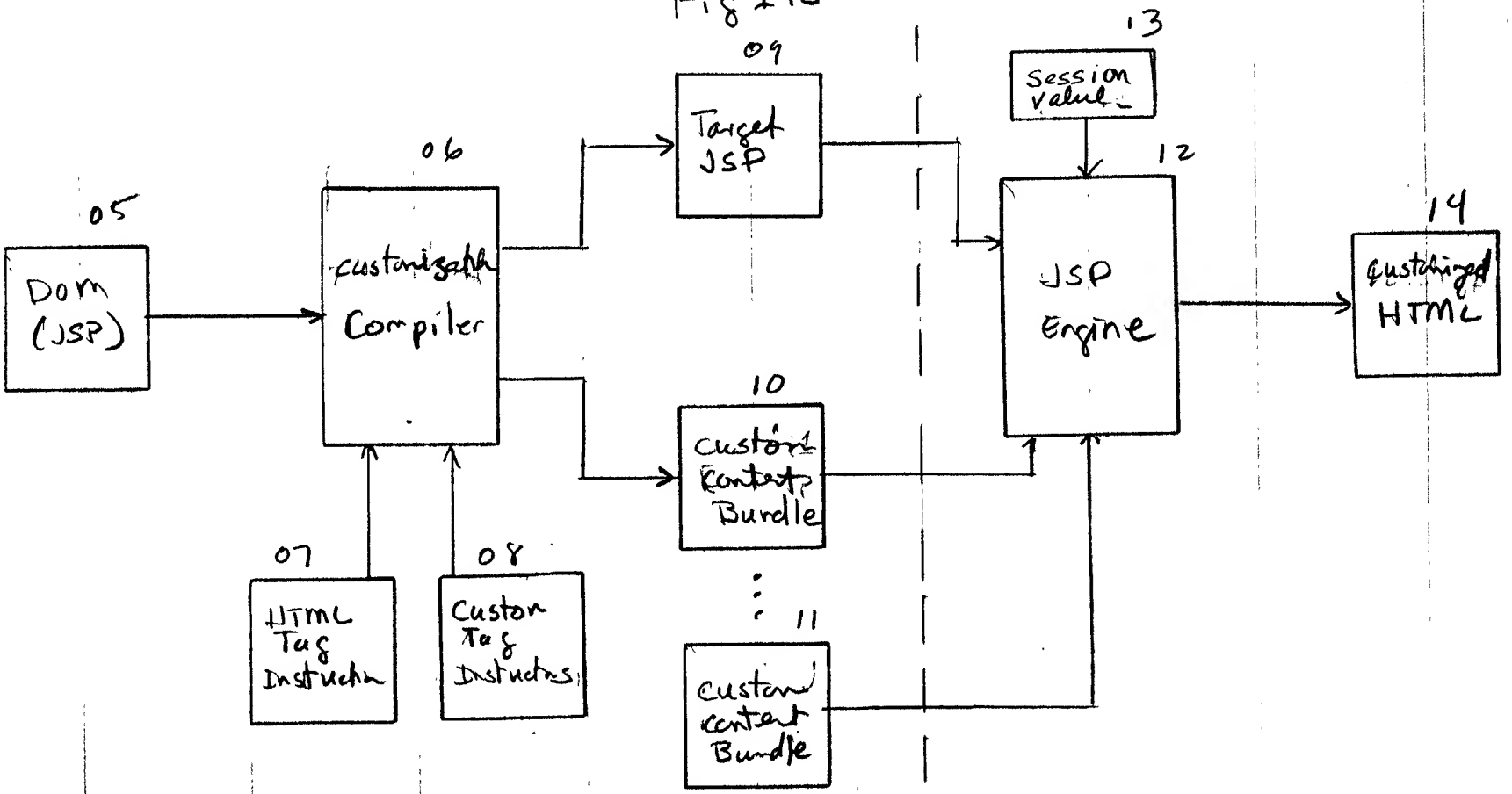

01
Source JSP
02
JSP to XML
03
XML (JSP)
04
XML TO DOM
05
DOM (JSP)

Fig 1B


05
DOM (JSP)
06
Custom Compiler
07
HTML Tag Instruction
08
Custom Tag Instructions
09
Target JSP
10
Custom Content Bundle
11
Custom content Bundle
12
JSP Engine
13
Session value
14
Customized HTML

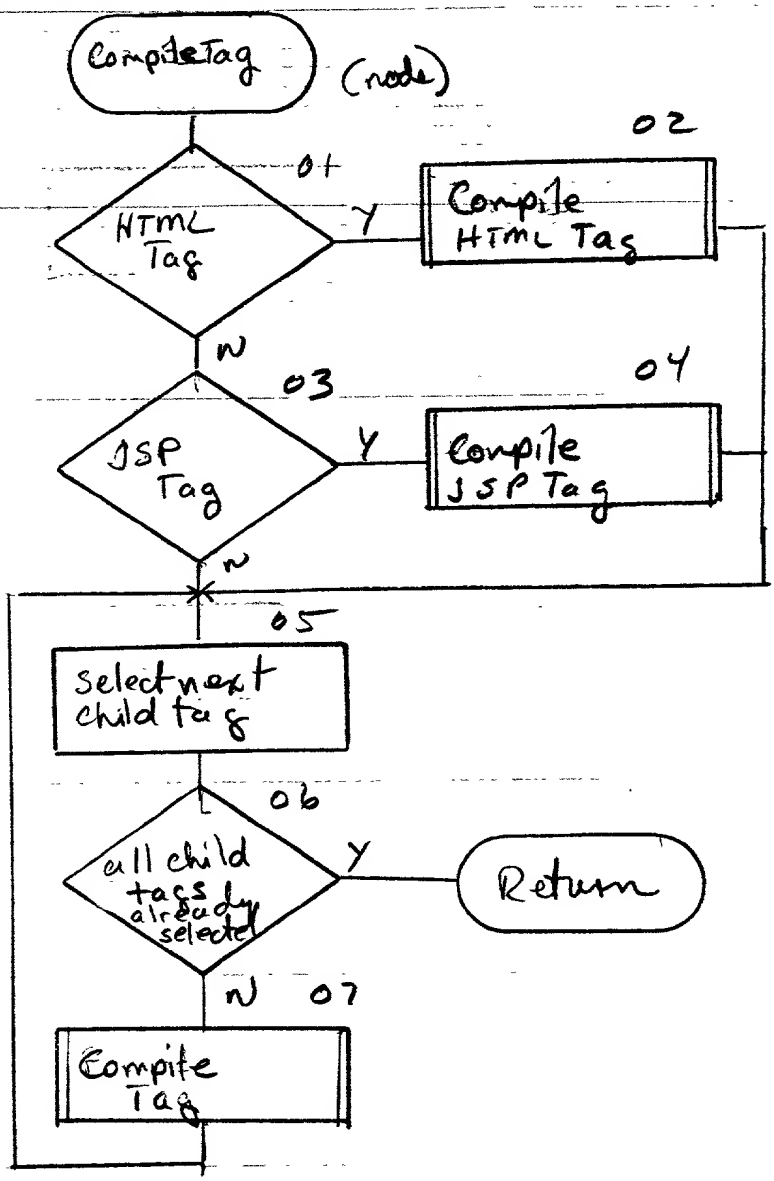

CompileTag
(node)
01
HTML Tag
Y
02
Compile HTML Tag
N
03
JSP Tag
Y
04
Compile JSP Tag
N
05
Select next child tag
06
all child tags already selected
Y
Return
N
07
Compile Tag

Fig 2

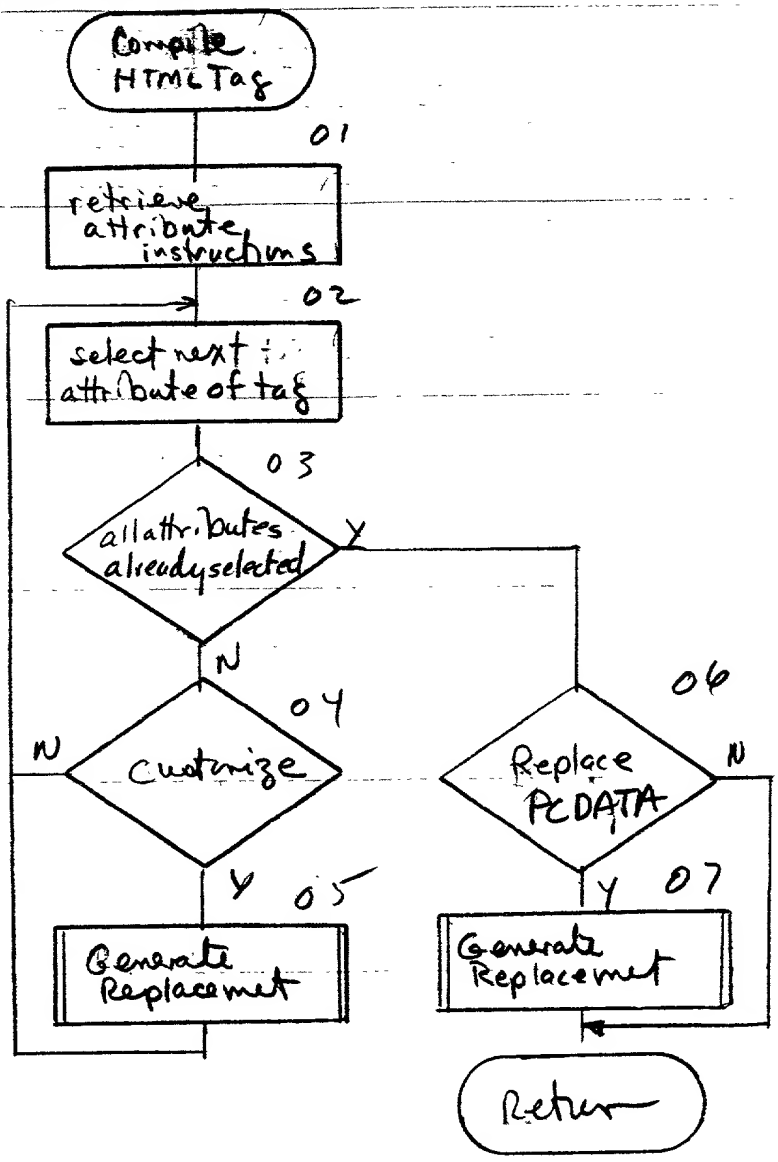

Compile HTML Tag
01
retrieve attribute instructions
02
select next attribute of tag
03
all attributes already selected
Y
N
04
N
Customize
Y
05
Generate Replacement
06
Replace PCDATA
N
Y
07
Generate Replacement
Return

Fig 3

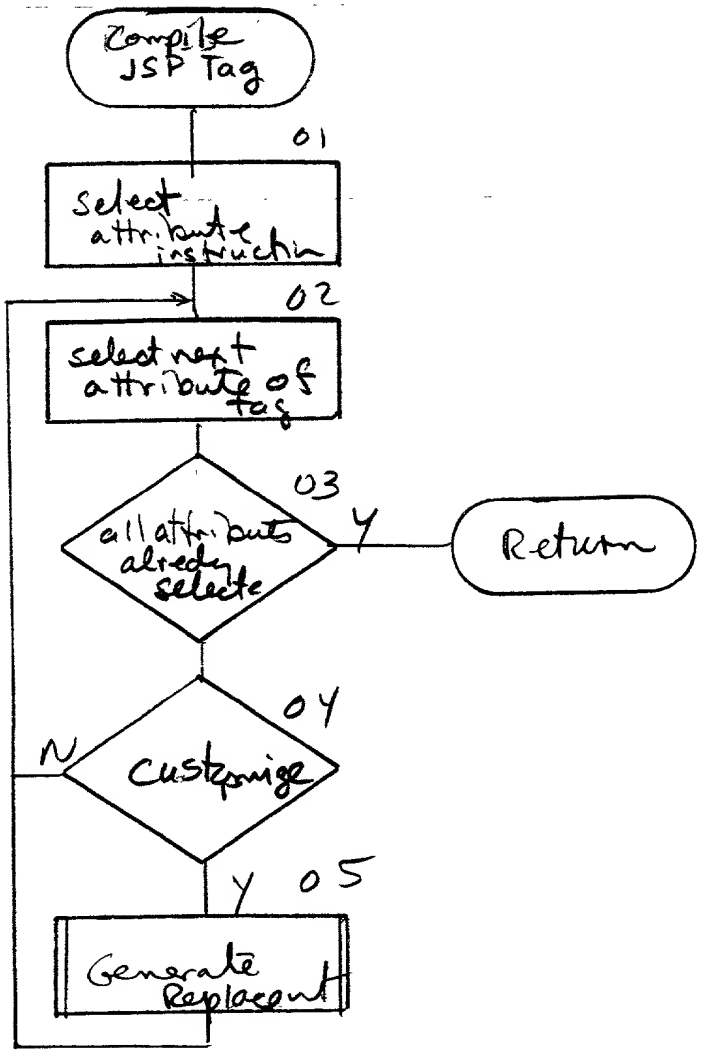

Compile JSP Tag
01
Select attribute instruction
02
select next attribute of tag
03
all attributes already selected
Y
Return
N
04
Customize
Y
05
Generate Replacement

Fig 4

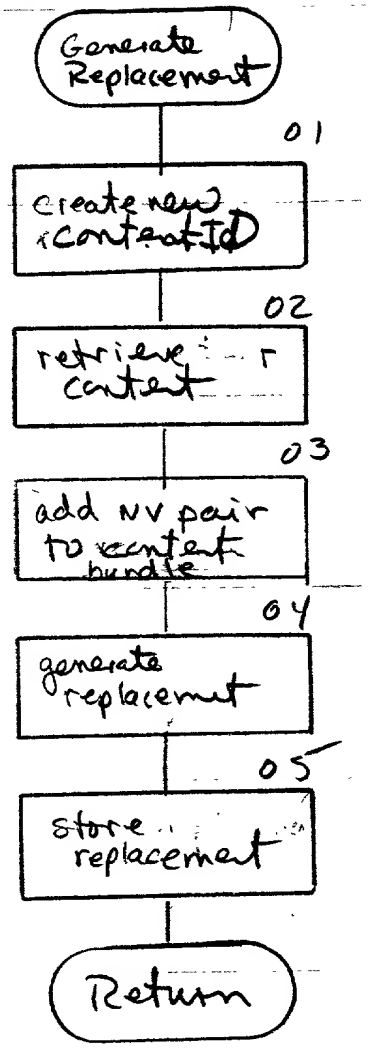

Generate Replacement
01
create new contentID
02
retrieve current content
03
add NV pair to content bundle
04
generate replacement
05
store replacement
Return

Fig 5

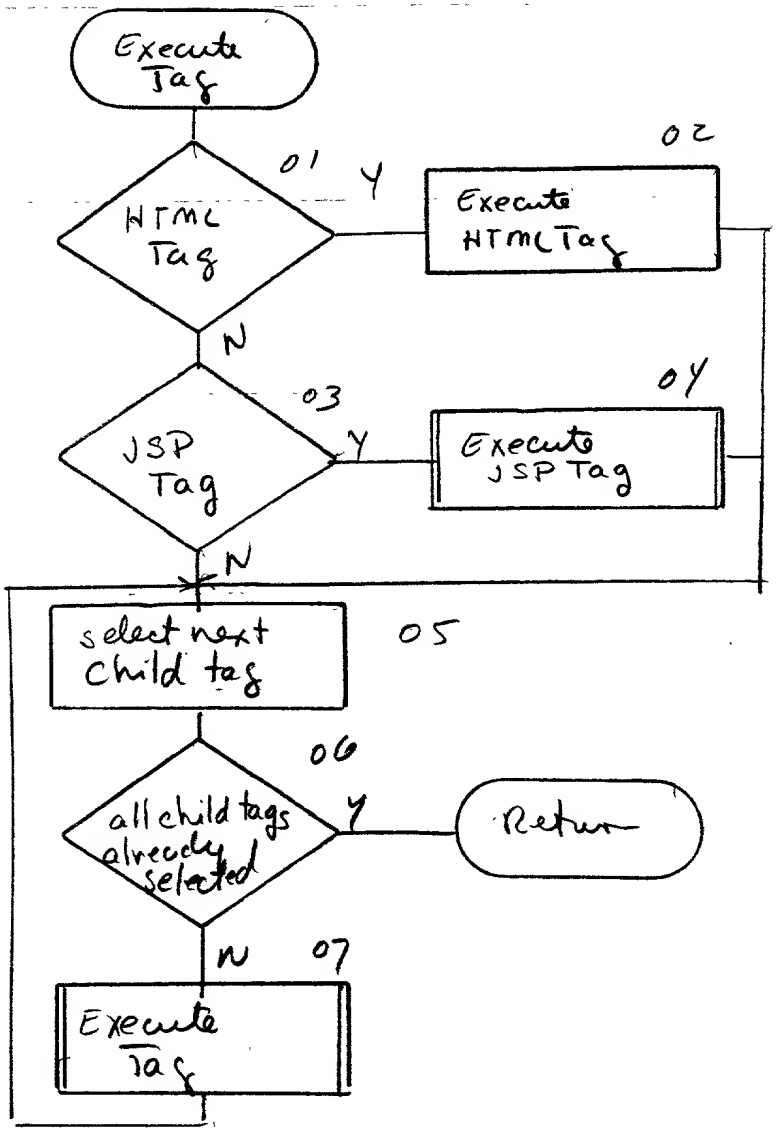

Execute Tag
01
HTML Tag
Y
02
Execute HTML Tag
N
03
JSP Tag
Y
04
Execute JSP Tag
N
select next Child tag
05
06
all child tags already selected
Y
Return
N
07
Execute Tag

Fig 6

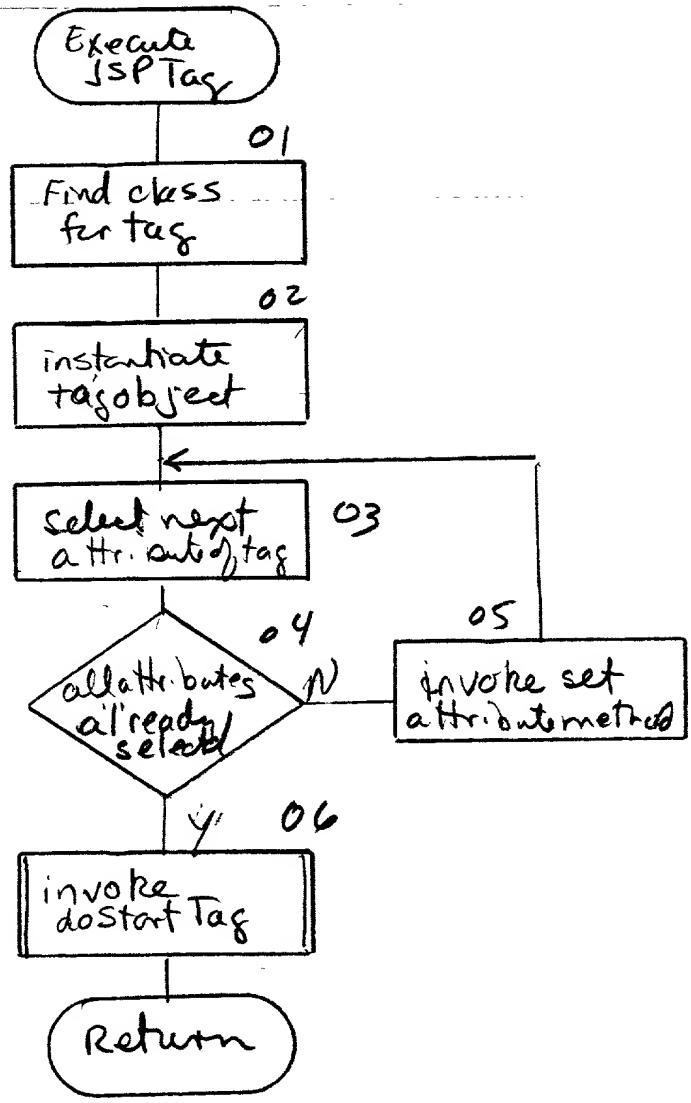

Execute JSP Tag
01
Find class for tag
02
instantiate tag object
03
select next attribute of tag
04
all attributes already selected
N
05
invoke set attribute method
Y
06
invoke doStartTag
Return

Fig 7

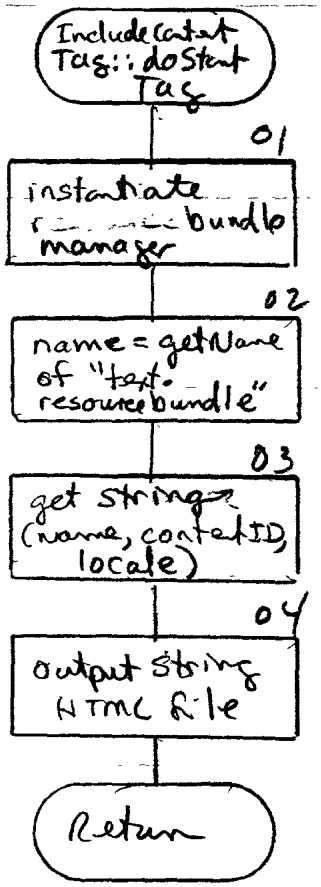

IncludeContent Tag::doStart Tag
01
instantiate resource bundle manager
02
name = getName of "text-resourcebundle"
03
get string (name, contentID, locale)
04
output String HTML file
Return

Fig 8

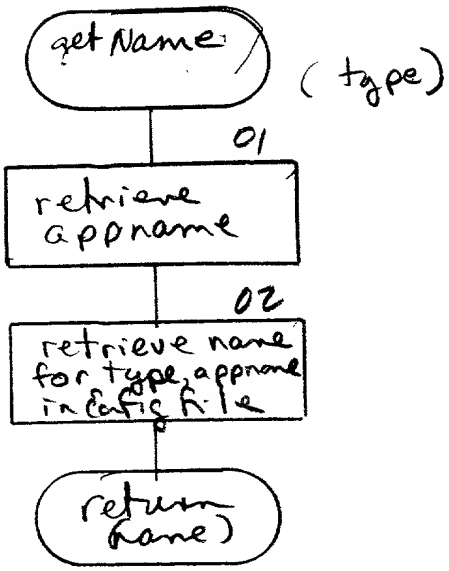

getName
(type)
01
retrieve appname
02
retrieve name for type, appname in Config file
return name)

Fig 9

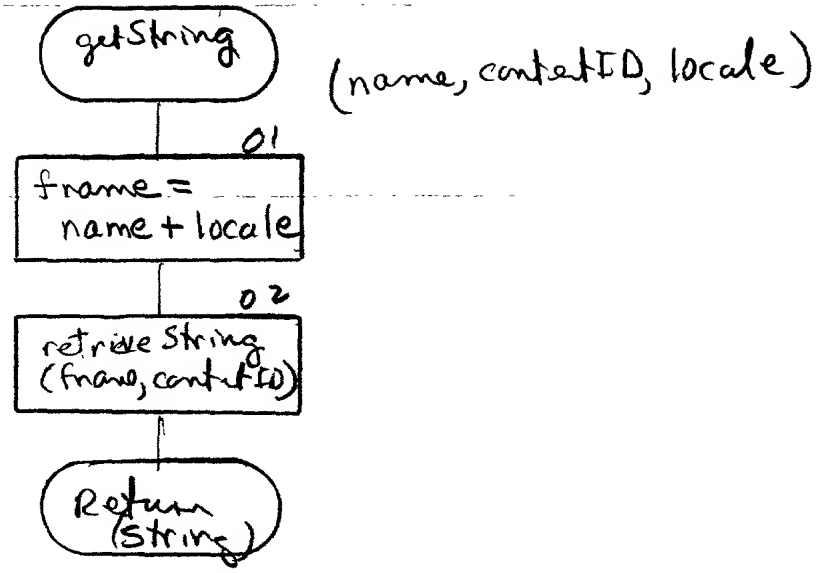

getString
(name, contextID, locale)
01
frame = name + locale
02
retrieve String (frame, contextID)
Return (String)

Fig 10